



SEQUENCE LISTING

<110> GILL, Peter
HUSSAIN, Javaid
LONG, Adam

<120> Improvements in and relating to analysis of DNA

<130> 7500.331USC1

<140> 10/034,692

<141> 2001-12-27

<150> PCT/GB00/02795

<151> 2000-07-24

<150> GB9917307.2

<151> 1999-07-23

<150> GB0009187.6

<151> 2000-04-14

<160> 42

<170> PatentIn Ver. 2.1

<210> 1

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial universal primer sequence designed to act as a molecular beacon and referred to at page 13 of the application.

<400> 1

acgcgctctc ttcttctttt gcgcg

25

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<221> unsure

<222> 20

<223> Description of Artificial Sequence: An artificial universal reporter primer forward sequence designed to optimally prime at 60 degrees C, page 29. n = a or g or c or t

<400> 2

cgacgtggtg gatgtgctan

20

<210> 3

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial universal primer reverse sequence designed to optimally prime at approximately 60 degrees C, page 29.

<400> 3

tgacctggct gactcgactg

20

<210> 4

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial universal primer reverse sequence designed to optimally prime at 60 degrees C, page 30.

<400> 4

tgccgtggct gacctgagac

20

<210> 5

<211> 20

<212> DNA

<213> Homo sapiens

<400> 5

gtattttcgt ctggggggta

20

<210> 6

<211> 21

<212> DNA

<213> Homo sapiens

<400> 6

gtctgtcttt gattcctgcc c

21

<210> 7

<211> 20

<212> DNA

<213> Homo sapiens

<400> 7

tttgattcct gcctcatccc

20

<210> 8

<211> 20

<212> DNA

<213> Homo sapiens

<400> 8

atattacagg cgaacatacc

20

<210> 9
<211> 27
<212> DNA
<213> Homo sapiens

<400> 9
gctttagga cataataata acaatta

27

<210> 10
<211> 22
<212> DNA
<213> Homo sapiens

<400> 10
cagagatgtg tttaagtgt gt

22

<210> 11
<211> 19
<212> DNA
<213> Homo sapiens

<220>
<223> k = g or t

<400> 11
accagctttg ccagttcck

19

<210> 12
<211> 16
<212> DNA
<213> Homo sapiens

<220>
<223> m = c or a

<400> 12
ttccgtgggt gtggcm

16

<210> 13
<211> 21
<212> DNA
<213> Homo sapiens

<400> 13
ggcagagcga ctaaaagcaa a

21

<210> 14
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: A human Gc
forward primer with an artificial universal primer
tag to detect a SNP polymorphism at Gc1s/1f, page

47.

<400> 14
cgacgtggtg gatgtgctag gttccgtggg tgtggcc 37

<210> 15
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: A Human Gc reverse primer with an artificial universal primer tag to detect a SNP polymorphism at Gcls/lf, page 47.

<400> 15
tgacgtggct gacctgagac ggcagagcga ctaaaagcaa a 41

<210> 16
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: An artificial universal molecular beacon primer sequence designed to detect universal primer 9G polymorphism, page 47.

<400> 16
acgcgctctc ttcttctttt gcgcgcgacg tggatgatgt gctag 45

<210> 17
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: An artificial reverse primer sequence designed to detect universal reverse 11 primer sequence, page 47.

<400> 17
tgacgtggct gacctgagac 20

<210> 18
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: A human Gc forward primer attached to an artificial universal primer tag to detect a SNP polymorphism at Gcls/lf, page 48.

<400> 18
cgacgtggtg gatgtgctag accagctttg ccagttccg 39

<210> 19
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: A human Gc forward primer attached to an artificial universal primer tag to detect a SNP polymorphism at Gcls/lf, page 48.

<400> 19
cgacgtggtg gatgtgcttc accagctttg ccagttcct 39

<210> 20
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: A human Gc forward primer attached to an artificial universal primer tag to detect a SNP polymorphism at Gcls/lf, page 48.

<400> 20
cgacgtggtg gatgtgctag gttccgtggg tgtggcc 37

<210> 21
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: A human Gc forward primer attached to an artificial universal primer tag to detect a SNP polymorphism at Gcls/lf, page 48.

<400> 21
cgacgtggtg gatgtgcttc gttccgtggg tgtggca 37

<210> 22
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: A human Gc reverse primer attached to an artificial universal primer tag to detect SNP polymorphisms at Gcls/lf, page 48.

<400> 22

tgacgtggct gacctgagac ggcagagcga ctaaaagcaa a

41

<210> 23

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial molecular beacon forward primer attached to a universal primer tag to detect universal primer 9G polymorphism.

<400> 23

acgcgctctc ttcttctttt gcgcgcgacg tggatgatgt gctag

45

<210> 24

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial molecular beacon forward primer attached to a universal primer tag to detect universal primer 9C polymorphism.

<400> 24

acgcgctctc ttcttctttt gcgcgcgacg tggatgatgt gcttc

45

<210> 25

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial reverse universal primer designed to detect universal 11 sequence, page 48.

<400> 25

tgacgtggct gacctgagac

20

<210> 26

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A Human Amelogenin sequence forward primer attached to an artificial universal sequence to detect Amelogenin X polym.

<400> 26

cgacgtggtg gatgtgcttc tgagccaatg gtaaacctgc c

41

<210> 27
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: A Human
Amelogenin sequence forward primer attached to an
artificial universal sequence to detect Amelogenin
Y polym.

<400> 27
cgacgtggtg gatgtgctag tgagccaatg gtaaactgc a 41

<210> 28
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<221> modified_base
<222> 30
<223> Description of Artificial Sequence: A Human
Amelogenin sequence reverse primer attached to an
artificial universal sequence to detect Amelogenin
X/Y polymorphism. n = i

<400> 28
tgacgtggct gacctgagac cataggaagn gtactggtga gaaaca 46

<210> 29
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: An artificial
molecular beacon forward primer attached to a
universal primer tag to detect universal primer 9G
polymorphism.

<400> 29
acgcgctctc ttcttctttt gcgcgcgacg tggatgatgt gctag 45

<210> 30
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: An artificial
molecular beacon forward primer attached to a
universal primer tag to detect universal 9C
polymorphism, page 49.

<400> 30
acgcgctctc ttcttctttt gcgcgcgacg tggatgatgt gcttc 45

<210> 31
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: An artificial reverse universal primer designed to detect universal 11 sequence, page 48.

<400> 31
tgacgtggct gacctgagac 20

<210> 32
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: An artificial forward universal primer attached to human Gc1s sequence, page 57.

<400> 32
ctagctgggtg gctgtgctag gttccgtggg tgtggcc 37

<210> 33
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: An artificial reverse universal primer attached to human Gc1s/1f polymorphisms, page 57.

<400> 33
ctagctgggtg gctgtgctag ggcagagcga ctaaaagcaa a 41

<210> 34
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: A human alpha-1- antitrypsin forward sequence attached to an artificial universal primer to detect alpha-1.M1S polym.

<400> 34
ctagctgggtg gctgtgctag aggggaaact acagcacctg ga 42

<210> 35
<211> 42

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: A human
 alpha-1- antitrypsin foward sequence attached to
 an artificial universal primer to detect alpha-1.S
 polym, Fig 11.

 <400> 35
 ctagcctggt gtgtggctag aggggaaact acagcacctg gt 42

 <210> 36
 <211> 43
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: A human
 alpha-1- antitrypsin reverse sequence attached to
 an artificial universal primer to detect
 alpha-1.M1S polym.

 <400> 36
 ctagctgctg tgggtggctag tggatgatgat atcgtgggtg agt 43

 <210> 37
 <211> 27
 <212> DNA
 <213> Homo sapiens

 <400> 37
 cctgaagcca cacccacgga actggca 27

 <210> 38
 <211> 18
 <212> DNA
 <213> Homo sapiens

 <400> 38
 agttccgtgg gtgtggcc 18

 <210> 39
 <211> 27
 <212> DNA
 <213> Homo sapiens

 <400> 39
 cctgaggcca cacccacgga actggca 27

 <210> 40
 <211> 27
 <212> DNA
 <213> Homo sapiens

 <400> 40

cctgaggcca cacccaagga actggca

27

<210> 41

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Self
complimentary universal forward reporter primer
artificial sequence, Figure 25c.

<400> 41

ctagctggtg gctgtgctag

20

<210> 42

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Self
complimentary universal reverse reporter primer
artificial sequence, Figure 25c.

<400> 42

ctagctggtg gctgtgctag

20